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NEWS 25	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 26	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 28	MAY 01	New CAS web site launched
NEWS 29	MAY 08	CA/CAplus Indian patent publication number format defined

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=> s wo9919249/pn
L1            1 WO9919249/PN

=> d l1 iall

L1   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         1999:262218  CAPLUS
DOCUMENT NUMBER:          130:269681
ENTRY DATE:               Entered STN:  29 Apr 1999
TITLE:                    A process for the preparation of hydrogen and carbon
                          monoxide
INVENTOR(S):              De Jong, Krijn Pieter; Pieterse, Coen Willem Johannes;
                          Schoonebeek, Ronald Jan
PATENT ASSIGNEE(S):       Shell Internationale Research Maatschappij BV, Neth.
SOURCE:                   PCT Int. Appl., 21 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
INT. PATENT CLASSIF.:
             MAIN:        C01B003-00
        SECONDARY:        C01B003-38; C01B003-32; H01M008-06
CLASSIFICATION:           52-2 (Electrochemical, Radiational, and Thermal Energy
                          Technology)
                          Section cross-reference(s): 49, 51
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
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     WO 9919249            A1    19990422    WO 1998-EP6653           19981013 <--
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RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

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AU 9913351	A	19990503	AU 1999-13351		19981013
AU 737880	B2	20010906			
EP 1025039	A1	20000809	EP 1998-956855		19981013
EP 1025039	B1	20030115			
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AT 231102	T	20030215	AT 1998-956855		19981013
TW 440541	B	20010616	TW 1998-87117283		19981019
MX 200003327	A	20001110	MX 2000-3327		20000405
US 6673270	B1	20040106	US 2000-529293		20000411
NO 2000001927	A	20000413	NO 2000-1927		20000413
PRIORITY APPLN. INFO.:			EP 1997-308154	A	19971014
			EP 1998-304141	A	19980526
			WO 1998-EP6653	W	19981013

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	IPCI	C01B0003-00 [ICM,6]; C01B0003-38 [ICS,6]; C01B0003-32 [ICS,6]; H01M0008-06 [ICS,6]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; C01B0003-00 [I,C*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
	ECLA	C01B003/32B; C01B003/38D; H01M008/06B2; H01M008/06C
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BR 9813035	IPCI	C01B0003-00 [ICM,7]; C01B0003-38 [ICS,7]; C01B0003-32 [ICS,7]; H01M0008-06 [ICS,7]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; C01B0003-00 [I,C*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
JP 2001519311	IPCI	C01B0003-38 [ICM,7]; B01J0023-46 [ICS,7]; C01B0003-32 [ICS,7]; C01B0003-00 [ICS,7,C*]; H01M0008-06 [ICS,7]
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AT 231102	IPCI	C01B0003-00 [ICM,7]; C01B0003-38 [ICS,7]; C01B0003-32 [ICS,7]; H01M0008-06 [ICS,7]
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TW 440541	IPCI	C01B0003-26 [ICM,7]; C01B0003-00 [ICM,7,C*]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; C01B0003-00 [I,C*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
MX 200003327	IPCI	C01B0003-00 [ICM,5]; C01B0003-32 [ICS,5]; C01B0003-38 [ICS,5]; H01M0008-06 [ICS,5]
US 6673270	IPCI	C01B0003-26 [ICM,7]; C01B0003-00 [ICM,7,C*]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; C01B0003-00 [I,C*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
	NCL	252/373.000; 423/651.000
	ECLA	C01B003/32B; C01B003/38D; H01M008/06B2; H01M008/06C
NO 2000001927	IPCI	C01B0003-32 [ICM,7]; C01B0003-38 [ICS,7]; C01B0003-00 [ICS,7,C*]; H01M0008-06 [ICS,7]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; C01B0003-00 [I,C*]; C01B0003-32 [I,A]; C01B0003-38 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]

ABSTRACT:
A catalytic partial oxidation process for the preparation of hydrogen and carbon monoxide from an organic feedstock comprises contacting the feedstock and an oxygen-containing gas, in amts. giving an oxygen-to-carbon ratio of from 0.3 to 0.8, with a catalyst at a gas hourly space velocity in the range of from 100,000 to 10,000,000 NL/kg-h. The organic feedstock used is a feedstock containing hydrocarbons and/or oxygenates, which is liquid under conditions of standard temperature
and pressure and has an average carbon number of at least 6. The invention further relates to an elec.-energy generating process, an elec.-energy generating system, and transport means provided with this elec.-energy generating system.

SUPPL. TERM: hydrogen carbon monoxide prepn process; fuel cell power generation system

INDEX TERM: Alcohols, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(aliphatic; process for preparation of hydrogen and carbon monoxide)

INDEX TERM: Power
(generation; process for preparation of hydrogen and carbon monoxide)

INDEX TERM: Oxidation
Oxidation catalysts
(partial; process for preparation of hydrogen and carbon monoxide)

INDEX TERM: Fuel cells
Water gas shift reaction
(process for preparation of hydrogen and carbon monoxide)

INDEX TERM: Gas oils
(synthetic; process for preparation of hydrogen and carbon monoxide)

INDEX TERM: Kerosene
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(synthetic; process for preparation of hydrogen and carbon monoxide)

INDEX TERM: 7439-88-5, Iridium, uses 7440-16-6, Rhodium, uses 7440-67-7, Zirconium, uses
ROLE: CAT (Catalyst use); USES (Uses)
(process for preparation of hydrogen and carbon monoxide)

INDEX TERM: 630-08-0P, Carbon monoxide, preparation 1333-74-0P, Hydrogen, preparation
ROLE: IMF (Industrial manufacture); PREP (Preparation)

(process for preparation of hydrogen and carbon monoxide)
INDEX TERM: 60-29-7, Ether, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(process for preparation of hydrogen and carbon monoxide)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD.
REFERENCE(S): (1) Hideaki, M; Fuel reforming by catalytic partial oxidation 1981, 18, CAPLUS
(2) Hideaki, M; TOYOTA CHUO KENKYUSHO KENKYU HOKOKU 1980, V21, P11
(3) Johnson Matthey Plc; EP 0262947 A 1988 CAPLUS
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L2 0 WO0000426/PN
(WO426/PN)

=> s wo20000426/pn
L3 0 WO20000426/PN

=> s wo200426/pn
L4 0 WO200426/PN

=> s ep 9919249/pn
L5 0 EP 9919249/PN
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=> s wo 20000426/pn
L6 0 WO 20000426/PN
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L7 0 WO 2000426/PN
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L8 0 WO 20000426/PN
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=> s wo 200000426/pn
L9 1 WO 200000426/PN
(WO2000000426/PN)

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L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:15108 CAPLUS
DOCUMENT NUMBER: 132:80459
ENTRY DATE: Entered STN: 07 Jan 2000
TITLE: Catalytic partial oxidation of hydrocarbons with a rhodium-iridium alloy catalyst
INVENTOR(S): Schaddenhorst, David; Schoonebeek, Ronald Jan
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij BV, Neth.
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
INT. PATENT CLASSIF.:
MAIN: C01B003-38

SECONDARY: B01J023-46
CLASSIFICATION: 49-1 (Industrial Inorganic Chemicals)
Section cross-reference(s): 45, 51, 52
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000000426	A1	20000106	WO 1999-EP4408	19990624 <--
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PT 1098840	T	20021129	PT 1999-931148	19990623
ES 2182544	T3	20030301	ES 1999-931148	19990623
CA 2335983	A1	20000106	CA 1999-2335983	19990624
AU 9947776	A	20000117	AU 1999-47776	19990624
AU 743727	B2	20020131		
BR 9911739	A	20010403	BR 1999-11739	19990624
EP 1093439	A1	20010425	EP 1999-931176	19990624
EP 1093439	B1	20030219		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, PT				
JP 2002519182	T	20020702	JP 2000-556989	19990624
AT 232836	T	20030315	AT 1999-931176	19990624
NO 2000006579	A	20001221	NO 2000-6579	20001221
US 6702960	B1	20040309	US 2000-720294	20001222
ZA 2001000317	A	20010723	ZA 2001-317	20010111
ZA 2001000316	A	20010829	ZA 2001-316	20010111
US 2004228792	A1	20041118	US 2004-600494	20040607

PRIORITY APPLN. INFO.:	EP 1998-305179	A	19980630
	WO 1999-EP4408	W	19990624
	US 2000-720288	B3	20001221

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2000000426	ICM	C01B003-38
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	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
	ECLA	B01J023/46; B01J023/46D; B01J023/46F; B01J037/02M4; C01B003/38D; C01B003/40
PT 1098840	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-40 [ICS,7]; B01J0037-02 [ICS,7]; B01J0037-00 [ICS,7,C*]
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ES 2182544	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-40 [ICS,7]; B01J0037-02 [ICS,7]; B01J0037-00 [ICS,7,C*]
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CA 2335983	IPCI	C01B0003-38 [ICM,7]; C01B0003-00 [ICM,7,C*]; B01J0023-46 [ICS,7]
	IPCR	B01J0023-46 [I,C*]; B01J0023-46 [I,A]; B01J0037-00 [I,C*]; B01J0037-02 [I,A]; C01B0003-00 [I,C*]; C01B0003-38 [I,A]; C01B0003-40 [I,A]; H01M0008-06 [I,C*]; H01M0008-06 [I,A]
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US 2004228792	IPCI	C01B0003-26 [ICM,7]; C01B0003-00 [ICM,7,C*]
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	NCL	423/651.000
	ECLA	B01J023/46; B01J023/46D; B01J023/46F; B01J037/02M4; C01B003/38D; C01B003/40

ABSTRACT:
The invention relates to a process for catalytic partial oxidation of a hydrocarbonaceous feedstock. The process comprises contacting a feed comprising the hydrocarbonaceous feedstock and an O-containing gas with a catalyst comprising metals of Group VIII of the Periodic Table of Elements, wherein the

Group VIII metals are at least Rh and Ir in intimate association with each other.

SUPPL. TERM: catalytic partial oxidn hydrocarbon synthesis gas
INDEX TERM: Hydrocarbons, processes
ROLE: PEP (Physical, engineering or chemical process); PROC (Process)
(catalytic partial oxidation of)
INDEX TERM: Natural gas, processes
ROLE: PEP (Physical, engineering or chemical process); PROC (Process)
(catalytic partial oxidation of hydrocarbons with rhodium-iridium alloy catalyst)
INDEX TERM: Synthesis gas manufacturing
(catalytic partial oxidation of hydrocarbons with rhodium-iridium alloy catalyst for)
INDEX TERM: Oxidation
(catalytic; catalytic partial oxidation of hydrocarbons)
INDEX TERM: 74-82-8, Methane, processes
ROLE: PEP (Physical, engineering or chemical process); PROC (Process)
(catalytic partial oxidation of hydrocarbons with rhodium-iridium alloy catalyst)
INDEX TERM: 7429-90-5, Aluminum, uses 7439-88-5, Iridium, uses
7439-91-0, Lanthanum, uses 7439-95-4, Magnesium, uses
7440-04-2, Osmium, uses 7440-06-4, Platinum, uses
7440-16-6, Rhodium, uses 7440-21-3, Silicon, uses
7440-32-6, Titanium, uses 7440-39-3, Barium, uses
7440-58-6, Hafnium, uses 7440-67-7, Zirconium, uses
37364-99-1
ROLE: CAT (Catalyst use); USES (Uses)
(in catalyst for partial oxidation of hydrocarbons)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD.
REFERENCE(S): (1) Shell Int Research; EP 0629578 A 1994 CAPLUS
(2) Snam Progetti; GB 2274284 A 1994 CAPLUS

```
=> s cataly? (2a) partial oxid?
       1378285 CATALY?
        395866 PARTIAL
          1003 PARTIALS
        396468 PARTIAL
                 (PARTIAL OR PARTIALS)
       3043647 OXID?
         11501 PARTIAL OXID?
                 (PARTIAL(W)OXID?)
L10       2691 CATALY? (2A) PARTIAL OXID?

=> s l10 and hydrocarbon (s) oxygenat? compound?
        339114 HYDROCARBON
        340689 HYDROCARBONS
        524286 HYDROCARBON
                 (HYDROCARBON OR HYDROCARBONS)
         45037 OXYGENAT?
        997502 COMPOUND?
       1160232 COMPD
       1733147 COMPDS
       2479882 COMPD
                 (COMPD OR COMPDS)
       2937477 COMPOUND?
                 (COMPOUND? OR COMPD)
          2118 OXYGENAT? COMPOUND?
                 (OXYGENAT?(W)COMPOUND?)
           578 HYDROCARBON (S) OXYGENAT? COMPOUND?
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L11          3 L10 AND HYDROCARBON (S) OXYGENAT? COMPOUND?

=> d his

     (FILE 'HOME' ENTERED AT 15:04:13 ON 11 MAY 2007)

     FILE 'CAPLUS' ENTERED AT 15:05:05 ON 11 MAY 2007
L1             1 S WO9919249/PN
L2             0 S WO0000426/PN
L3             0 S WO20000426/PN
L4             0 S WO200426/PN
L5             0 S EP 9919249/PN
L6             0 S WO 20000426/PN
L7             0 S WO 2000426/PN
L8             0 S WO 20000426/PN
L9             1 S WO 200000426/PN
L10         2691 S CATALY? (2A) PARTIAL OXID?
L11            3 S L10 AND HYDROCARBON (S) OXYGENAT? COMPOUND?

=> s l11 not l1 not l9
L12            3 L11 NOT L1 NOT L9

=> d l12 ibib ab 1-3

L12  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2005:238918  CAPLUS
DOCUMENT NUMBER:          142:282643
TITLE:                    Catalytic partial
                          oxidation process for producing synthesis gas
INVENTOR(S):              Basini, Luca; Bartolini, Andrea; Lupi, Giancarlo;
                          Clerici, Gabriele Carlo Ettore
PATENT ASSIGNEE(S):       Eni S.p.A., Italy; Enitecnologie S.p.A.
SOURCE:                   PCT Int. Appl., 24 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    --------------------     --------
     WO 2005023710         A2    20050317    WO 2004-EP10169          20040909
     WO 2005023710         A3    20050526
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
     CA 2538404            A1    20050317    CA 2004-2538404          20040909
     EP 1663856            A2    20060607    EP 2004-765092           20040909
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
     US 2007105962         A1    20070510    US 2007-571538           20070117
PRIORITY APPLN. INFO.:                      IT 2003-MI1739       A   20030911
                                            WO 2004-EP10169      W   20040909
AB   A partial oxidation process of liquid fuels, selected from hydrocarbon
     and/or oxygenated compds., together with gaseous
     fuels, selected from hydrocarbon compds., natural gas and LPG,
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includes premixing the reagents with oxygen or air, and optionally with vapor and/or CO2 and heating to 25-400°; reacting the mixture in the catalytic zone, at inlet temps. ranging from 50 to 500° and space velocities ranging from 1,000 to 1,000,000 Nl reagents/L cat x h, reaching temps. ranging from 450 to 1350°. The reagents may include heavy residues from oil distillation The catalyst system consists of oxides, oxynitrides, nitrides, carbides, and/or oxycarbides containing Rh, Ir, Ni, Fe, Co, and/or Mo.

L12 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:233171 CAPLUS
DOCUMENT NUMBER: 118:233171
TITLE: Partial oxidation of hydrocarbons and oxygenated compounds on perovskite oxides
AUTHOR(S): Shimizu, T.
CORPORATE SOURCE: Hakodate Natl. Coll. Technol., Tokura, 042, Japan
SOURCE: Chemical Industries (Dekker) (1993), 50(Properties and Applications of Perovskite-Type Oxides), 289-305
CODEN: CHEIDI; ISSN: 0737-8025
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review with 42 refs.

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:80226 CAPLUS
DOCUMENT NUMBER: 118:80226
TITLE: Partial oxidation of hydrocarbons and oxygenated compounds on perovskite oxides
AUTHOR(S): Shimizu, T.
CORPORATE SOURCE: Hakodate Natl. Coll. Technol., Hakodate, 042, Japan
SOURCE: Catalysis Reviews - Science and Engineering (1992), 34(4), 355-71
CODEN: CRSEC9; ISSN: 0161-4940
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB Effect of temperature and surface oxygen for partial oxidation of hydrocarbons were
reviewed; partial oxidation of alcs. were reviewed; partial oxidation is based on the use of oxygen as co-reactant; 42 refs.

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:238918 CAPLUS
DOCUMENT NUMBER: 142:282643
TITLE: Catalytic partial oxidation process for producing synthesis gas
INVENTOR(S): Basini, Luca; Bartolini, Andrea; Lupi, Giancarlo; Clerici, Gabriele Carlo Ettore
PATENT ASSIGNEE(S): Eni S.p.A., Italy; Enitecnologie S.p.A.
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005023710	A2	20050317	WO 2004-EP10169	20040909
WO 2005023710	A3	20050526		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2538404	A1	20050317	CA 2004-2538404	20040909
EP 1663856	A2	20060607	EP 2004-765092	20040909
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
US 2007105962	A1	20070510	US 2007-571538	20070117

PRIORITY APPLN. INFO.: IT 2003-MI1739 A 20030911
WO 2004-EP10169 W 20040909

AB A partial oxidn. process of liquid fuels, selected from hydrocarbon and/or oxygenated compds., together with gaseous fuels, selected from hydrocarbon compds., natural gas and LPG, includes premixing the reagents with oxygen or air, and optionally with vapor and/or CO2 and heating to 25-400°; reacting the mixture in the catalytic zone, at inlet temps. ranging from 50 to 500° and space velocities ranging from 1,000 to 1,000,000 Nl reagents/L cat x h, reaching temps. ranging from 450 to 1350°. The reagents may include heavy residues from oil distn. The catalyst system consists of oxides, oxynitrides, nitrides, carbides, and/or oxycarbides containing Rh, Ir, Ni, Fe, Co, and/or Mo.

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:452964 CAPLUS
DOCUMENT NUMBER: 115:52964
TITLE: The conversion of high-pollutant undesirable oil residues into environmentally acceptable hydrogen fuel
AUTHOR(S): Abdel-Aal, H. K.
CORPORATE SOURCE: Dep. Chem. Eng., King Fahd Univ. Pet. Miner., Dhahran, 31261, Saudi Arabia
SOURCE: Advances in Hydrogen Energy (1990), 8(Hydrogen Energy Prog. 8, Vol. 1), 357-75
CODEN: AHENDB; ISSN: 0276-2412
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review with 7 refs. After presenting some of the characteristics of

heavy petroleums and petroleum residues (especially from the Middle East), a comparison is made between the upgrading approach using a chemical conversion (e.g., hydrocracking or hydroprocessing) and non-catalytic partial oxidn.-gasification. The selection of a particular process depends largely on the quality of the residue that can be conveniently or practically handled by a refinery. For those feedstocks with significant concns. of asphaltenes, S, Ni, V, etc., hydrocracking and hydroprocessing will require expensive upgrading equipment. Such residues would have more value as gasification-partial oxidation feedstocks for manufacture of H or synthesis gas, which can be easily used within the refinery or upgraded to more valuable products.

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:57737 CAPLUS
DOCUMENT NUMBER: 90:57737
TITLE: Gasification process
INVENTOR(S): Yoshida, Kenji; Isogaya, Kazuyoshi; Tomita, Tadayoshi; Kikuchi, Katsutoshi; Kuboyama, Hisaharu
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4115074	A	19780919	US 1976-751168	19761216
JP 52078901	A	19770702	JP 1975-155111	19751226
JP 57010916	B	19820301		

PRIORITY APPLN. INFO.: JP 1975-155111 A 19751226

AB H-containing gas mixts. are manufactured by the partial oxidn. of hydrocarbon mixts. containing residual oils at ≥850° in a fixed catalyst bed without the deposition of C. Before gasification the hydrocarbon mixture is atomized with a mixture of O-containing gas and steam without forming eddy currents, with the residence time in the atomizing zone being 0.05-5 s. The atomizing zone has a cylindrical or frustoconical shape, the inside diameter at the top end of the zone is twice as large as the diameter of the atomization nozzle, and the angle of the sidewall of the atomizing zone is smaller than the angle of the streams from the nozzle. Thus, a petroleum distn. residue (1.0 kg/h) was gasified in this apparatus at 1000° by steam (2.4 kg/h) and air (3.6 m3/h) at 0.2 kg/cm2 (gage), with Ca aluminate as the catalyst. No C deposition was observed at residence times in the atomizing zone of 0.05 and 0.2 s, but sooty C was deposited at 0.02 s residence time.

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